**Homework 60** Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Similar Triangles – SSS & SAS** Period:\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Failure to show all work and write in complete sentences will result in LaSalle.**

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| 1) Is either Δ*LMN* o*r* Δ*RST* similar to Δ*ABC*? | | 2) Determine whether the two triangles are similar. If they are similar, write a similarity statement and find the scale factor of Δ*A* to Δ*B.* |
| 3) Show that the triangles are similar and write a similarity statement. *Explain* yourreasoning. | | 4) Show that the triangles are similar and write a similarity statement. *Explain* yourreasoning. |
| 5) Δ*ACE* ~Δ*DCB.* Find the length of AB. | 6) Sketch the triangles using the given description. *Explain* whether the two triangles can be similar.  🡪 In Δ*ABC, AB =* 15, *BC =* 24 and *m*∠*B =* 38°.  🡪 In Δ*DEF*, *DE =* 5, *EF =* 8 and *m*∠*E* = 38°. | |